MAJOR SOURCE OPERATING PERMIT

Permittee: **Mueller Company**

Facility Name: **Mueller Company**

Facility No.: 711-0013

Location: Albertville, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: January XX, 2020

Expiration Date: January XX, 2025

Alabama Department of Environmental Management

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1. Transfer	
This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.	Rule 335-3-16-.02(6)
2. Renewals	
An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit. The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.	Rule 335-3-16-.12(2)
3. Severability Clause	
The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.	Rule 335-3-16-.05(e)
4. Compliance	
(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.	Rule 335-3-16-.05(f)
(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.	Rule 335-3-16-.05(g)

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5. Termination for Cause	
This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.	Rule 335-3-16-.05(h)
6. Property Rights	
The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	Rule 335-3-16-.05(i)
7. Submission of Information	
The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.	Rule 335-3-16-.05(j)
8. Economic Incentives, Marketable Permits, and Emissions Trading	
No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	Rule 335-3-16-.05(k)
9. Certification of Truth, Accuracy, and Completeness	
Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.	Rule 335-3-16-.07(a)

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10. <u>Inspection and Entry</u>	
Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:	Rule 335-3-16-.07(b)
(a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;	
(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;	
(c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;	
(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.	
11. <u>Compliance Provisions</u>	
(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.	Rule 335-3-16-.07(c)
(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.	
12. <u>Compliance Certification</u>	
A compliance certification shall be submitted annually within 60 days of the anniversary date of issuance of this permit.	Rule 335-3-16-.07(e)
(a) The compliance certification shall include the following:	
(1) The identification of each term or condition of this permit that is the basis of the certification;	

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(2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; (5) Such other facts as the Department may require to determine the compliance status of the source; (b) The compliance certification shall be submitted to: Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463 and to: Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303	
13. <u>Reopening for Cause</u> Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit: (a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire. (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.	Rule 335-3-16-.13(5)

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(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.	
(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.	
14. <u>Additional Rules and Regulations</u>	
This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.	§22-28-16(d), Code of Alabama 1975, as amended
15. <u>Equipment Maintenance or Breakdown</u>	
(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:	Rule 335-3-1-.07(1), (2)
(1) Identification of the specific facility to be taken out of service as well as its location and permit number;	
(2) The expected length of time that the air pollution control equipment will be out of service;	
(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;	
(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;	
(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.	

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(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.	
16. <u>Operation of Capture and Control Devices</u>	
All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.	§22-28-16(d), Code of Alabama 1975, as amended
17. <u>Obnoxious Odors</u>	
This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.	Rule 335-3-1-.08
18. <u>Fugitive Dust</u>	
(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.	Rule 335-3-4-.02
(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:	
(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;	

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(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; (3) By paving; (4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions; Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.	
19. <u>Additions and Revisions</u> Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.	Rule 335-3-16-.13 and .14
20. <u>Recordkeeping Requirements</u> (a) Records of required monitoring information of the source shall include the following: (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement.	Rule 335-3-16-.05(c)2.

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(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit.	
21. <u>Reporting Requirements</u>	
(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).	Rule 335-3-16-.05(c)3.
(b) Deviations from permit requirements shall be reported within 48 hours or 2 working day of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.	
22. <u>Emission Testing Requirements</u>	
Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.	Rule 335-3-1-.05(3) Rule 335-3-1-.04(1)
The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.	
To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:	

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(1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests. (2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning). (3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity. (4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances. A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis. All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.	
23. <u>Payment of Emission Fees</u> Annual emission fees shall be remitted each year according to the fee schedule in Rule 335-1-7-.04.	Rule 335-1-7-.04
24. <u>Other Reporting and Testing Requirements</u> Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.	Rule 335-3-1-.04(1)

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25. Title VI Requirements (Refrigerants)	
Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.	40 CFR Part 82
No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F. The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.	
26. Chemical Accidental Prevention Provisions	
If a chemical listed in Table 1 of 40 CFR 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:	40 CFR Part 68
(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.	
(b) The owner or operator shall submit one of the following:	
(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a) or,	
(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.	
27. Display of Permit	
This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.	Rule 335-3-14-.01(1)(d)

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28. Circumvention	
No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.	Rule 335-3-1-.10
29. Visible Emissions	
Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	Rule 335-3-4-.01(1)
30. Fuel-Burning Equipment	
(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Rule 335-3-4-.03.	Rule 335-3-4-.03
(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Rule 335-3-5-.01.	Rule 335-3-5-.01
31. Process Industries – General	
Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Rule 335-3-4-.04.	Rule 335-3-4-.04
32. Averaging Time for Emission Limits	
Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	Rule 335-3-1-.05

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33. <u>Compliance Assurance Monitoring (CAM)</u> Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.	
(a) Operation of Approved Monitoring	40 CFR 64.7
(1) *Commencement of operation*. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).	
(2) *Proper maintenance*. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.	
(3) *Continued operation*. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	

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(4) *Response to excursions or exceedances*. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process. (5) *Documentation of need for improved monitoring*. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.	

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(b) Quality Improvement Plan (QIP) Requirements	40 CFR 64.8
(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.	
(2) Elements of a QIP:	
a. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.	
b. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:	
(i) Improved preventive maintenance practices.	
(ii) Process operation changes.	
(iii) Appropriate improvements to control methods.	
(iv) Other steps appropriate to correct control performance.	
(v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)b.(i) through (iv) above).	

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(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.	
(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have: a. Failed to address the cause of the control device performance problems; or b. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.	
(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.	
(c) Reporting and Recordkeeping Requirements	40 CFR 64.9
(1) *General reporting requirements* a. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code r. 335-3-16-.05(c)3. b. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code r. 335-3-16-.05(c)3. and the following information, as applicable:	

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(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken; (ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and (iii) A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring. (2) *General recordkeeping requirements* a. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code r. 335-3-16-.05(c)2. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). b. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	

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(d) Savings Provisions (1) Nothing in this part shall: a. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part. b. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable. c. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.	40 CFR 64.10

Summary Page for Three Ajax Electric Induction Furnaces and One Coreless Induction Furnace with Baghouse EP001

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
001	Three Ajax Electric Induction Furnaces and One Coreless Induction Furnace with Baghouse	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
001	Three Ajax Electric Induction Furnaces and One Coreless Induction Furnace with Baghouse	PM	7.0 lb/hr*	Rule 335-3-14-.04 (Anti-PSD)
001	Three Ajax Electric Induction Furnaces and One Coreless Induction Furnace with Baghouse	PM	0.005 gr/dscf	40 CFR §63.7690(a)(1)(i)
001	Three Ajax Electric Induction Furnaces and One Coreless Induction Furnace with Baghouse	Opacity	20%/40%	Rule 335-3-4-.01(1)
Fugitives	Three Ajax Electric Induction Furnaces and One Coreless Induction Furnace with Baghouse	Opacity	20%/27%	40 CFR §63.7690(a)(7)

*Note: The Three Ajax Electric Induction Furnaces and One Coreless Induction Furnace share a combined limit of 7.0 lb/hr out of the baghouse stack.

Provisos for Three Ajax Electric Induction Furnaces and One Coreless Induction Furnace with Baghouse EP001

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Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03 "*Major Source Operating Permits*".	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions – Process Industries – General"*.	Rule 335-3-4-.04
4. The Three Ajax Electric Induction Furnaces and One Coreless Induction Furnace share an enforceable limit in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, "*Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".*	Rule 335-3-14-.04 (Anti-PSD)
5. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, "*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"*.	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
6. These sources is subject to the applicable requirements of 40 CFR Part 63, Subpart A, *"General Provisions"*, as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
Emission Standards	
1. Particulate matter emissions from the Three Ajax Electric Induction Furnaces and One Coreless Induction Furnace shall not exceed the lesser of the Anti-PSD combined limit of 7.0 lb/hr or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
2. Particulate matter emissions from each of the Three Electric Induction Furnaces and the Coreless Induction Furnace shall not exceed 0.005 gr/dscf.	40 CFR §63.7690(a)(1)(i)
3. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)

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4. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)
5. For each segregated scrap storage area, bin or pile, the facility must either comply with the certification requirements in §63.7700(b) or prepare and implement a plan for the selection and inspection of scrap according to the requirements in §63.7700(c). The facility may have certain scrap subject to (b) and other scrap subject to (c) provided that the scrap remains segregated until charge make-up.	40 CFR §63.7700(a)
6. The facility must prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device for an emission source subject to an emissions limit in §63.7690(a) as applicable.	40 CFR §63.7710(a)&(b)
7. The facility must develop and operate according to a written startup, shutdown, and malfunction plan as specified in §63.6(e)(3).	40 CFR §63.7720(a-c)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A, shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility must conduct performance tests to demonstrate compliance with the 0.005 gr/dscf PM emission limitation no less frequently than every 5 years and/or each time the facility elects to change an operating limit or to comply with a different alternative emissions limit, if applicable.	40 CFR §63.7731(a)
4. The facility shall perform performance tests to demonstrate compliance with fugitive opacity limit in §60.7690(a)(7) no less frequently than once every 6 months as applicable.	40 CFR §63.7731(b)
5. Compliance with the particulate matter emission limit found in §60.7690(a)(1) shall be determined by following the test methods and procedures in §63.7732(b)(1)-(6), as applicable.	40 CFR §63.7732(b)

Federally Enforceable Provisos	Regulations
6. Compliance with the fugitive emission opacity limit in §63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation for the entire building or structure may be performed if the fugitive release points afford such an observation. Opacity observations should be recorded during PM performance tests, if applicable.	40 CFR §63.7732(d)
7. The facility must, for each capture and control device for an emission source subject to an emission limit in §63.7690(a), demonstrate continuous compliance by complying with the requirements in §63.7745(a)(1) through (5) as applicable.	40 CFR §63.7745(a)
Emission Monitoring	
1. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per week: check hopper, fan, and cleaning cycle for proper operation. (b) Once per week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05
2. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per year: inspect baghouse structure, access doors, door seals, and bags. (b) Once per year: perform an internal inspection of the baghouse hoppers.	Rule 335-3-16-.05
3. The facility must install, operate, and maintain a CPMS according to the requirements in §63.7741(a) for each capture system subject to an operating limit in §63.7690(b)(1).	40 CFR §63.7740(a)
4. The facility must at all times monitor the relative change in PM loadings using a bag leak detection system according to the requirements in §63.7741(b).	40 CFR §63.7740(b)

Federally Enforceable Provisos	Regulations
5. The facility must conduct inspections at the specified frequencies according to the requirements below: (a) Monitor the pressure drop across the baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual. (b) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms. (c) Check the compressed air supply for pulse-jet baghouses each day. (d) Monitor cleaning cycles to ensure proper operation using an appropriate methodology. (e) Check bag cleaning mechanism for proper functioning through monthly visual inspections or equivalent means. (f) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or lying on their sides. The facility does not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices. (g) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks. (h) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.	40 CFR §63.7740(b)(1)-(8)
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05
2. The facility shall maintain a record of all Method 9 observations performed to satisfy monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
3. The visible emission observation results will be documented using an ADEM visible emissions observation report.	Rule 335-3-16-.05
4. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
5. The facility shall maintain a record of all differential pressure readings performed to satisfy monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
6. The facility shall maintain a record of all the calibrations of the magnehelic/photohelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
7. The facility must maintain records of the times the bag leak detection system sounded, and for each valid alarm, the time the facility initiated corrective action, the corrective action taken, and the date on which corrective action was completed.	40 CFR §63.7743(c)
8. The facility must maintain records that document continuous compliance with the certification requirements in §63.7700(b) or with the procedures in the scrap selection and inspection plan required in §63.7700(c). The records documenting compliance with the scrap selection and inspection plan must include a copy (kept onsite) of the procedures used by the scrap supplier for either removing accessible mercury switches or for purchasing automobile bodies that have had mercury switches removed, as applicable.	40 CFR §63.7744(a)
9. The facility must maintain a current copy of the operation and maintenance plans required by §63.7710(b) onsite and available for inspection upon request. The plans must be kept for the life of the iron and steel foundry or until the iron and steel foundry is no longer subject to the requirements of 40 CFR Part 63, Subpart EEEEE.	40 CFR §63.7745(b)
10. The facility must report each instance of deviation which did not meet each emission limit in §63.7710 (including each operating limit) that applies. This includes periods of startup, shutdown, and malfunction as applicable.	40 CFR §63.7746(a)&(b)
11. The facility must comply with the notifications, reports, and records requirements specified in §63.7750, §63.7751(a-d), §63.7752(a-c) and §63.7753(a-c), as applicable.	40 CFR §63.7750 40 CFR §63.7751(a-d) 40 CFR §63.7752(a-c) 40 CFR §63.7753(a-c)

Summary Page for One Coreless Induction Melting Furnace (10 TPH) with Baghouse EP017

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
017	One Coreless Induction Melting Furnace (10 TPH) with Baghouse	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
017	One Coreless Induction Melting Furnace (10 TPH) with Baghouse	PM	4.0 lb/hr*	Rule 335-3-14-.04 (Anti-PSD)
017	One Coreless Induction Melting Furnace (10 TPH) with Baghouse	PM	0.005 gr/dscf	40 CFR §63.7690(a)(1)(i)
017	One Coreless Induction Melting Furnace (10 TPH) with Baghouse	Opacity	20%/40%	Rule 335-3-4-.01(1)
Fugitives	One Coreless Induction Melting Furnace (10 TPH) with Baghouse	Opacity	20%/27%	40 CFR §63.7690(a)(7)
*Note: The Coreless Induction Furnace and Ductile Iron Treatment share a combined PM limit of 4.0 lb/hr.				

Provisos for One Coreless Induction Melting Furnace (10 TPH) with Baghouse EP017

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03 *"Major Source Operating Permits*".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions - Process Industries – General"*.	Rule 335-3-4-.04
4. The Coreless Induction Melting Furnace and Ductile Iron Treatment share an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, *"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".*	Rule 335-3-14-.04 (Anti-PSD)
5. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, *"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries".*	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
6. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart A, "*General Provisions*", as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
Emission Standards	
1. Particulate matter emissions from the Coreless Induction Furnace and Ductile Iron Treatment shall not exceed the lesser of the Anti-PSD combined limit of 4.0 lb/hr or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
2. Particulate matter emissions from the Coreless Induction Furnace shall not exceed 0.005 gr/dscf.	40 CFR §63.7690(a)(1)(i)
3. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
4. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)

Federally Enforceable Provisos	Regulations
5. For each segregated scrap storage area, bin or pile, the facility must either comply with the certification requirements in §63.7700(b) or prepare and implement a plan for the selection and inspection of scrap according to the requirements in §63.7700(c). The facility may have certain scrap subject to (b) and other scrap subject to (c) provided that the scrap remains segregated until charge make-up.	40 CFR §63.7700(a)
6. The facility must prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device for an emission source subject to an emissions limit in §63.7690(a) as applicable.	40 CFR §63.7710(a)&(b)
7. The facility must develop and operate according to a written startup, shutdown, and malfunction plan as specified in §63.6(e)(3).	40 CFR §63.7720(a-c)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A, shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR 60, Appendix A, shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility must conduct performance tests to demonstrate compliance with the 0.005 gr/dscf PM emission limitation no less frequently than every 5 years and/or each time the facility elects to change an operating limit or to comply with a different alternative emissions limit, if applicable.	40 CFR §63.7731(a)
4. The facility shall perform performance tests to demonstrate compliance with fugitive opacity limit in §60.7690(a)(7) no less frequently than once every 6 months as applicable.	40 CFR §63.7731(b)
5. Compliance with the particulate matter emission limit found in §60.7690(a)(1) shall be determined by following the test methods and procedures in §63.7732(b)(1)-(6), as applicable.	40 CFR §63.7732(b)
6. Compliance with the fugitive emission opacity limit in §63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure.	40 CFR §63.7732(d)

Federally Enforceable Provisos	Regulations
Alternatively, a single opacity observation for the entire building or structure may be performed if the fugitive release points afford such an observation. Opacity observations should be recorded during PM performance tests, if applicable.	
7. The facility must, for each capture and control device for an emission source subject to an emission limit in §63.7690(a), demonstrate continuous compliance by complying with the requirements in §63.7745(a)(1) through (5) as applicable.	40 CFR §63.7745(a)
Emission Monitoring	
1. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per week: check hopper, fan, and cleaning cycle for proper operation. (b) Once per week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05
2. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per year: inspect baghouse structure, access doors, door seals, and bags. (b) Once per year: perform an internal inspection of the baghouse hoppers.	Rule 335-3-16-.05
3. The facility must at all times monitor the relative change in PM loadings using a bag leak detection system according to the requirements in §63.7741(b).	40 CFR §63.7740(b)
4. The facility must conduct inspections at the specified frequencies according to the requirements below: (a) Monitor the pressure drop across the baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual. (b) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms. (c) Check the compressed air supply for pulse-jet baghouses each day. (d) Monitor cleaning cycles to ensure proper operation using an appropriate methodology.	40 CFR §63.7740(c)(1)-(8)

Federally Enforceable Provisos	Regulations
(e) Check bag cleaning mechanism for proper functioning through monthly visual inspections or equivalent means.	
(f) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or lying on their sides. The facility does not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices.	
(g) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.	
(h) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.	
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
3. The visible emission observation results will be documented using an ADEM visible emissions observation report.	Rule 335-3-16-.05
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
5. The facility shall maintain a record of all the calibrations of the magnehelic/photohelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
6. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
7. The facility must maintain records of the times the bag leak detection system sounded, and for each valid alarm, the time the facility initiated corrective action, the corrective action taken and the date on which corrective action was completed.	40 CFR §63.7743(c)

Federally Enforceable Provisos	Regulations
8. The facility must maintain records that document continuous compliance with the certification requirements in §63.7700(b) or with the procedures in the scrap selection and inspection plan required in §63.7700(c). The records documenting compliance with the scrap selection and inspection plan must include a copy (kept onsite) of the procedures used by the scrap supplier for either removing accessible mercury switches or for purchasing automobile bodies that have had mercury switches removed, as applicable.	40 CFR §63.7744(a)
9. The facility must maintain a current copy of the operation and maintenance plans required by §63.7710(b) onsite and available for inspection upon request. The plans must be kept for the life of the iron and steel foundry or until the iron and steel foundry is no longer subject to the requirements of 40 CFR Part 63, Subpart EEEEE.	40 CFR §63.7745(b)
10. The facility must report each instance of deviation which did not meet each emission limit in §63.7710 (including each operating limit) that applies. This includes periods of startup, shutdown, and malfunction as applicable.	40 CFR §63.7746(a)&(b)
11. The facility must comply with the notifications, reports, and records requirements specified in §63.7750, §63.7751(a-d), §63.7752(a-c) and §63.7753(a-c), as applicable.	40 CFR §63.7750 40 CFR §63.7751(a-d) 40 CFR §63.7752(a-c) 40 CFR §63.7753(a-c)

Summary Page for Ductile Iron Treatment with Baghouse
EP018

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
018	Ductile Iron Treatment with Baghouse	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
018	Ductile Iron Treatment with Baghouse	PM	4.0 lb/hr*	Rule 335-3-14-.04 (Anti-PSD)
018	Ductile Iron Treatment with Baghouse	Opacity	20%/40%	Rule 335-3-4-.01(1)
Fugitives	Ductile Iron Treatment with Baghouse	Opacity	20%/27%	§63.7690(a)(7)
*Note: The Coreless Induction Furnaces and Ductile Iron Treatment share a combined limit of 4.0 lb/hr.				

Provisos for Ductile Iron Treatment with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits*".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions – Process Industries – General"*.	Rule 335-3-4-.04
4. The Coreless Induction Melting Furnaces and Ductile Iron Treatment share an enforceable limit in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, "*Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]*".	Rule 335-3-14-.04 (Anti-PSD)
5. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, "*National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries*".	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
6. The facility is subject to the applicable requirements of 40 CFR Part 63, Subpart A, "*General Provisions*", as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
Emission Standards	
1. Particulate matter emissions from the Ductile Iron Treatment and Coreless Induction Furnaces (10 TPH) shall not exceed the lesser of the Anti-PSD combined limit of 4.0 lb/hr or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
2. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility shall perform performance tests to demonstrate compliance with the fugitive opacity limit in §63.7690(a)(7) no less frequently than once every 6 months.	40 CFR §63.7731(b)
4. Compliance with the fugitive emission opacity limit in §63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation for the entire building or structure may be performed if the fugitive release points afford such an observation.	40 CFR §63.7732(d)
Emission Monitoring	
1. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per week: check hopper, fan, and cleaning cycle for proper operation. (b) Once per week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05
2. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per year: inspect baghouse structure, access doors, door seals, and bags. (b) Once per year: perform an internal inspection of the baghouse hoppers.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
3. The visible emission observation results will be documented using an ADEM visible emission observation report.	Rule 335-3-16-.05
4. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the monitoring requirements. This shall include all problems observed and corrective actions taken.	Rule 335-3-16-.05
5. The facility shall maintain a record of the differential pressure drop readings performed to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
6. The facility shall maintain a record of all the calibrations of the magnehelic/photohelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
7. The facility must maintain a current copy of the operation and maintenance plans required by §63.7710(b) onsite and available for inspection upon request. The plans must be kept for the life of the iron and steel foundry or until the iron and steel foundry is no longer subject to the requirements of 40 CFR Part 63, Subpart EEEEE.	40 CFR §63.7745(b)

Summary Page for Pouring and Cooling with Baghouse EP090

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
090	Pouring and Cooling Molten Iron	PM	0.010 gr/dscf	40 CFR §63.7690(a)(5)(i)
090	Pouring and Cooling Molten Iron	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
090	Pouring and Cooling Molten Iron	SO_2	N/A	N/A
090	Pouring and Cooling Molten Iron	NO_2	N/A	N/A
090	Pouring and Cooling Molten Iron	VOC	N/A	N/A
090	Pouring and Cooling Molten Iron	Opacity	20%/40%	Rule 335-3-4-.01(1)
Fugitives	Pouring and Cooling Molten Iron	Opacity	20%/27%	40 CFR §63.7690(a)(7)

Provisos for Pouring and Cooling with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, *"Major Source Operating Permits"*.	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions – Process Industries – General"*.	Rule 335-3-4-.04
4. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, *"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"*.	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
5. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart A, *"General Provisions"*, as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
Emission Standards	
1. Particulate matter emissions from each pouring station shall not exceed 0.010 gr/dscf.	40 CFR §63.7690(a)(5)(i)
2. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. Particulate matter emissions from this source shall not exceed the allowable as set by ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-4-.04
4. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)
5. The facility must prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device for an emission source subject to an emissions limit in §63.7690(a) as applicable.	40 CFR §63.7710(a)&(b)

Federally Enforceable Provisos	Regulations
6. The facility must develop and operate according to a written startup, shutdown, and malfunction plan as specified in §63.6(e)(3).	40 CFR §63.7720(a-c)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility must conduct performance tests to demonstrate compliance with the 0.010 gr/dscf PM emission limitation no less frequently than every 5 years and/or each time the facility elects to change an operating limit or to comply with a different alternative emissions limit, as applicable.	40 CFR §63.7731(a)
4. The facility shall perform performance tests to demonstrate compliance with fugitive opacity limit in §60.7690(a)(7) no less frequently than once every 6 months as applicable.	40 CFR §63.7731(b)
5. Compliance with the particulate matter emission limit found in §60.7690(a)(5) shall be determined by following the test methods and procedures in §63.7732(b)(1)-(6), as applicable.	40 CFR §63.7732(b)
6. Compliance with the fugitive emission opacity limit in §63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation for the entire building or structure may be performed if the fugitive release points afford such an observation. Opacity observations should be recorded during PM performance tests, if applicable.	40 CFR §63.7732(d)
Emission Monitoring	
1. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per week: check hopper, fan, and cleaning cycle for proper operation. (b) Once per week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
2. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per year: inspect baghouse structure, access doors, door seals, and bags. (b) Once per year: perform an internal inspection of the baghouse hoppers.	Rule 335-3-16-.05
3. The facility must at all times monitor the relative change in PM loadings using a bag leak detection system according to the requirements in §63.7741(b).	40 CFR §63.7740(b)
4. The facility must conduct inspections at the specified frequencies according to these requirements below: (a) Monitor the pressure drop across the baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual. (b) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms. (c) Check the compressed air supply for pulse-jet baghouses each day. (d) Monitor cleaning cycles to ensure proper operation using an appropriate methodology. (e) Check bag cleaning mechanism for proper functioning through monthly visual inspections or equivalent means. (f) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or lying on their sides. The facility does not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices. (g) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks. (h) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.	40 CFR §63.7740(c)(1)-(8)
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
3. The visible emission observation results will be documented using an ADEM visible emissions observation report.	Rule 335-3-16-.05
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
5. The facility shall maintain a record of all the calibrations of the magnehelic/photohelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
6. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
7. The facility must maintain records of the times the bag leak detection system sounded, and for each valid alarm, the time the facility initiated corrective action, the corrective action taken and the date on which corrective action was completed.	40 CFR §63.7743(c)
8. The facility must maintain records that document continuous compliance with the certification requirements in §63.7700(b) or with the procedures in the scrap selection and inspection plan required in §63.7700(c). The records documenting compliance with the scrap selection and inspection plan must include a copy (kept onsite) of the procedures used by the scrap supplier for either removing accessible mercury switches or for purchasing automobile bodies that have had mercury switches removed, as applicable.	40 CFR §63.7744(a)
9. The facility must maintain a current copy of the operation and maintenance plans required by §63.7710(b) onsite and available for inspection upon request. The plans must be kept for the life of the iron and steel foundry or until the iron and steel foundry is no longer subject to the requirements of 40 CFR Part 63, Subpart EEEEE.	40 CFR §63.7745(b)
10. The facility must report each instance of deviation which did not meet each emission limit in §63.7710 (including each operating limit) that applies. This includes periods of startup, shutdown, and malfunction as applicable.	40 CFR 63.7746(a)&(b)

Federally Enforceable Provisos	Regulations
11. The facility must comply with the notifications, reports, and records requirements specified in §63.7750, §63.7751(a-d), §63.7752(a-c) and §63.7753(a-c) as applicable.	40 CFR §63.7750 40 CFR §63.7751(a-d) 40 CFR §63.7752(a-c) 40 CFR §63.7753(a-c)

Summary Page for Lost Foam Foundry Sand Recycling System with Baghouse EP015

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
015	Sand Recycling with Baghouse	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
015	Sand Recycling with Baghouse	PM	2.8 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
015	Sand Recycling with Baghouse	Opacity	20%/40%	Rule 335-3-4-.01(1)
Fugitives	Sand Recycling with Baghouse	Opacity	20%/27%	40 CFR §63.7690(a)(7)

Provisos for Lost Foam Foundry Sand Recycling System with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, *"Major Source Operating Permits"*.	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions – Process Industries – General"*.	Rule 335-3-4-.04
4. This source has an enforceable limit in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, *"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"*.	Rule 335-3-14-.04 (Anti-PSD)
5. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, *"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"*.	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
6. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart A, *"General Provisions,"* as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
7. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, *"Compliance Assurance Monitoring"*, to include General Proviso #33.	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from the Lost Foam Foundry Sand Recycling System shall not exceed the lesser of the Anti-PSD limit of 2.8 lb/hr or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
2. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility shall perform performance tests to demonstrate compliance with the fugitive opacity limit in §63.7690(a)(7) no less frequently than once every 6 months.	40 CFR §63.7731(b)
4. Compliance with the fugitive emission opacity limit in 63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation may be performed if the fugitive release points afford such an observation.	40 CFR §63.7732(d)
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per week: check hopper, fan, and cleaning cycle for proper operation. (b) Once per week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per year: inspect baghouse structure, access doors, door seals, and bags. (b) Once per year: perform an internal inspection of the baghouse hoppers.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
3. The visible emission observation results will be documented using an ADEM visible emissions observation report.	Rule 335-3-16-.05
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
6. The facility shall maintain a record of all the calibrations of the magnehelic/photohelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64

Summary Page for Continuous Shotblast with Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
004	Continuous Shotblast with Baghouse	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
004	Continuous Shotblast with Baghouse	PM	4.1 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
004	Continuous Shotblast with Baghouse	Opacity	20%/40%	Rule 335-3-4-.01(1)
Fugitives	Continuous Shotblast with Baghouse	Opacity	20%/27	40 CFR §63.7690(a)(7)

Provisos for Continuous Shotblast with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits*".	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions - Process Industries – General"*.	Rule 335-3-4-.04
4. The Continuous Shotblast has an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, "*Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]*".	Rule 335-3-14-.04 (Anti-PSD)
5. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, *"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"*.	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
6. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart A, *"General Provisions"*, as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
7. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, *"Compliance Assurance Monitoring"*, to include General Proviso #33.	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from the Continuous Shotblast shall not exceed the lesser of the Anti-PSD limit of 4.1 lb/hr or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
2. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility shall perform performance tests to demonstrate compliance with the fugitive opacity limit in §63.7690(a)(7) no less frequently than once every 6 months.	40 CFR §63.7731(b)
4. Compliance with the fugitive emission opacity limit in 63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation may be performed if the fugitive release points afford such an observation.	40 CFR §63.7732(d)
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per week: check hopper, fan, and cleaning cycle for proper operation. (b) Once per week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per year: inspect baghouse structure, access doors, door seals, and bags. (b) Once per year: perform an internal inspection of the baghouse hoppers.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
3. The visible emission observation results will be documented using an ADEM visible emissions observation report.	Rule 335-3-16-.05
4. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
5. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
6. The facility shall maintain a record of all the calibrations of the magnehelic/photohelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64

Summary Page for Sand Recycling System with Baghouse
EP009

Permitted
Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
009	Sand Recycling & Cleaning and Finishing	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
009	Sand Recycling & Cleaning and Finishing	PM	6.1 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
009	Sand Recycling & Cleaning and Finishing	Opacity	20%/40%	Rule 335-3-4-.01(1)
Fugitives	Sand Recycling & Cleaning and Finishing	Opacity	20%/27%	40 CFR §63.7690(a)(7)

Provisos for Sand Recycling System with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, *"Major Source Operating Permits"*.	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions – Process Industries – General"*.	Rule 335-3-4-.04
4. The Sand Recycling System has an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, *"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"*.	Rule 335-3-14-.04 (Anti-PSD)
5. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, *"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"*.	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
6. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart A, "*General Provisions*", as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
7. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, *"Compliance Assurance Monitoring"*, to include General Proviso #33.	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from the Sand Recycling System shall not exceed the lesser of the combined Anti-PSD limit of 6.1 lb/hr or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
2. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility shall perform performance tests to demonstrate compliance with the fugitive opacity limit in §63.7690(a)(7) no less frequently than once every 6 months.	40 CFR §63.7731(b)
4. Compliance with the fugitive emission opacity limit in 63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation may be performed if the fugitive release points afford such an observation.	40 CFR §63.7732(d)
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per week: check hopper, fan, and cleaning cycle for proper operation. (b) Once per week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per year: inspect baghouse structure, access doors, door seals, and bags. (b) Once per year: perform an internal inspection of the baghouse hoppers.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
3. The visible emission observation results will be documented using an ADEM visible emissions observation report.	Rule 335-3-16-.05
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
6. The facility shall maintain a record of all the calibrations of the magnehelic/photohelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64

Summary Page for Disamatic Mold System with Baghouse

Permitted Operating Schedule:

24 Hrs/day x 6 Days/week x 52 Weeks/yr = 7488 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
019	Disamatic Mold System with Baghouse	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
019	Disamatic Mold System with Baghouse	PM	25.0 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
019	Disamatic Mold System with Baghouse	PM	7,488 hrs/ rolling 12-month period	Rule 335-3-14-.04 (Anti-PSD)
019	Disamatic Mold System with Baghouse	PM	0.010 gr/dscf	40 CFR §63.7690(a)(5)(i)
019	Disamatic Mold System with Baghouse	Opacity	20%/40%	Rule 335-3-4-.01(1)
Fugitives	Disamatic Mold System with Baghouse	Opacity	20%/27%	§63.7690(a)(7)

Provisos for Disamatic Mold System with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03 *"Major Source Operating Permits."*	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions - Process Industries – General"*.	Rule 335-3-4-.04
4. The Disamatic Mold System has an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, *"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".*	Rule 335-3-14-.04 (Anti-PSD)
5. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, *"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"*.	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
6. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart A, *"General Provisions"*, as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
Emission Standards	
1. Particulate matter emissions from the Disamatic Mold System shall not exceed the lesser of the Anti-PSD limit of 25.0 lb/hr or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-14-.04 (Anti-PSD)
2. The Disamatic Mold System shall not operate more than 7,488 hours during any consecutive rolling twelve-month period.	Rule 335-3-14-.04 (Anti-PSD)
3. Particulate matter emissions from each pouring station shall not exceed 0.010 gr/dscf.	40 CFR §63.7690(a)(5)(i)
4. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
5. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)

Federally Enforceable Provisos	Regulations
6. The facility must prepare and operate at all times according to a written operation and maintenance plan for each capture and collection system and control device for an emission source subject to an emissions limit in §63.7690(a) as applicable.	40 CFR §63.7710(a)&(b)
7. The facility must develop a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3).	40 CFR §63.7720(a-c)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility must conduct performance tests to demonstrate compliance with the 0.010 gr/dscf PM emission limitation no less frequently than every 5 years and/or each time the facility elects to change an operating limit or to comply with a different alternative emissions limit, if applicable.	40 CFR §63.7731(a)
4. The facility shall perform performance tests to demonstrate compliance with the fugitive opacity limit in §63.7690(a)(7) no less frequently than once every 6 months.	40 CFR §63.7731(b)
5. Compliance with the particulate matter emission limit found in §60.7690(a)(1) shall be determined by following the test methods and procedures in §63.7732(b)(1)-(6), as applicable.	40 CFR §63.7732(b)
6. Compliance with the fugitive emission opacity limit in §63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation for the entire building or structure may be performed if the fugitive release points afford such an observation. Opacity observations should be recorded during PM performance tests, if applicable.	40 CFR §63.7732(d)
7. The facility must for each capture and control device for an emission source subject to an emission limit in §63.7690(a), must demonstrate continuous compliance by complying with the requirements in §63.7745(a)(1) through (5) as applicable.	40 CFR §63.7745(a)

Federally Enforceable Provisos	Regulations
Emission Monitoring	
1. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per week: check hopper, fan, and cleaning cycle for proper operation. (b) Once per week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05
2. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per year: inspect baghouse structure, access doors, door seals, and bags. (b) Once per year: perform an internal inspection of the baghouse hoppers.	Rule 335-3-16-.05
3. The facility must at all times monitor the relative change in PM loadings using a bag leak detection system according to the requirements in §63.7741(b).	40 CFR §63.7740(b)
4. The facility must conduct inspections at the specified frequencies according to these requirements below: (a) Monitor the pressure drop across the baghouse cell each day to ensure pressure drop is within the normal operating range identified in the manual. (b) Confirm that dust is being removed from hoppers through weekly visual inspections or other means of ensuring the proper functioning of removal mechanisms. (c) Check the compressed air supply for pulse-jet baghouses each day. (d) Monitor cleaning cycles to ensure proper operation using an appropriate methodology. (e) Check bag cleaning mechanism for proper functioning through monthly visual inspections or equivalent means. (f) Make monthly visual checks of bag tension on reverse air and shaker-type baghouses to ensure that bags are not kinked (kneed or bent) or lying on their sides. The facility does not have to make this check for shaker-type baghouses using self-tensioning (spring-loaded) devices. (g) Confirm the physical integrity of the baghouse through quarterly visual inspections of the baghouse interior for air leaks.	40 CFR §63.7740(c)(1)-(8)

Federally Enforceable Provisos	Regulations
(h) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means.	
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions and corrective actions taken.	Rule 335-3-16-.05
3. The visible emission observation results will be documented using an ADEM visible emissions observation report.	Rule 335-3-16-.05
4. The facility shall maintain a record of hours of operation for the Disamatic Mold System. The hours of operation shall be recorded in the form of a monthly and twelve-month rolling total.	Rule 335-3-16-.05
5. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
6. The facility shall maintain a record of all weekly and annual baghouse inspection to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions and corrective actions taken.	Rule 335-3-16-.05
7. The facility shall maintain a record of all the calibrations of the magnehelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
8. The facility must maintain records of the times the bag leak detection system sounded, and for each valid alarm, the time the facility initiated corrective action, the corrective action taken and the date on which corrective action was completed.	40 CFR §63.7743(c)
9. The facility must maintain records that document continuous compliance with the certification requirements in §63.7700(b) or with the procedures in the scrap selection and inspection plan required in §63.7700(c). The records documenting compliance with the scrap selection and inspection plan must include a copy (kept onsite) of the procedures used by the scrap supplier for either removing accessible mercury switches or for purchasing automobile bodies that have had mercury switches removed, as applicable.	40 CFR §63.7744(a)

Federally Enforceable Provisos	Regulations
10. The facility must maintain a current copy of the operation and maintenance plans required by §63.7710(b) onsite and available for inspection upon request. The plans must be kept for the life of the iron and steel foundry or until the iron and steel foundry is no longer subject to the requirements of 40 CFR Part 63, Subpart EEEEE.	40 CFR §63.7745(b)
11. The facility must report each instance of deviation which did not meet each emission limit in §63.7710 (including each operating limit) that applies. This includes periods of startup, shutdown, and malfunction as applicable.	40 CFR §63.7746(a&b)
12. The facility must comply with the notifications, reports, and records requirements specified in §63.7750, §63.7751(a-d), §63.7752(a-c) and §63.7753(a-c) as applicable.	40 CFR §63.7750 40 CFR §63.7751(a-d) 40 CFR §63.7752(a-c) 40 CFR §63.7753(a-c)

Summary Page for Ten Pedestal Grinders with Dustex Baghouse EP011

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
011	Ten Pedestal Grinders with Baghouse	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
011	Ten Pedestal Grinders with Baghouse	PM	5.6 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
011	Ten Pedestal Grinders with Baghouse	Opacity	20%/40%	Rule 335-3-4-.01(1)
Fugitives	Ten Pedestal Grinders with Baghouse	Opacity	20%/27%	40 CFR §63.7690(a)(7)

Provisos for Ten Pedestal Grinders with Dustex Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, *"Major Source Operating Permits"*.	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions – Process Industries – General"*.	Rule 335-3-4-.04
4. The Ten Pedestal Grinding Stations have a combined enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, *"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"*.	Rule 335-3-14-.04 (Anti-PSD)
5. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, *"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"*.	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
6. These sources are subject to the applicable requirements of 40 CFR Part 63, Subpart A, *"General Provisions"*, as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
7. For particulate matter emissions, these sources are subject to the applicable requirements of 40 CFR Part 64, *"Compliance Assurance Monitoring"*, to include General Proviso #33.	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from all Ten Pedestal Grinding Stations combined shall not exceed the lesser of the Anti-PSD limit of 5.6 lb/hr or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
2. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility shall perform performance tests to demonstrate compliance with the fugitive opacity limit in §63.7690(a)(7) no less frequently than once every 6 months.	40 CFR §63.7731(b)
4. Compliance with the fugitive emission opacity limit in §63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation for the entire building or structure may be performed if the fugitive release points afford such an observation.	40 CFR §63.7732(d)
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per week: check hopper, fan, and cleaning cycle for proper operation. (b) Once per week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per year: inspect baghouse structure, access doors, door seals, and bags. (b) Once per year: perform an internal inspection of the baghouse hoppers.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
3. The visible emission observation results will be documented using an ADEM visible emissions observation report.	Rule 335-3-16-.05
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
6. The facility shall maintain a record of all the calibrations of the magnehelic/photohelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64

Summary Page for Pneumatic Sand System

Permitted Operating Schedule:

500 Hrs/yr Silo A + 350 Hrs/yr Silo C = 850 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
003A	Triple Sand Silo A	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
003A	Triple Sand Silo A	PM	1.0 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
003A	Triple Sand Silo A	Opacity	20%/40%	Rule 335-3-4-.01(1)
003C	Dual Pre-mix Silo C	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
003C	Dual Pre-mix Silo C	PM	1.0 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
003C	Dual Pre-mix Silo C	Opacity	20%/40%	Rule 335-3-4-.01(1)

Provisos for Pneumatic Sand System

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, *"Major Source Operating Permits"*.	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions – Process Industries – General"*.	Rule 335-3-4-.04
4. The Pneumatic Sand System Silos have enforceable limits in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, *"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"*.	Rule 335-3-14-.04 (Anti-PSD)
Emission Standards	
1. Particulate matter emissions from the Triple Sand Silo A shall not exceed the lesser of the Anti-PSD limit of 1.0 lb/hr or the allowable as set by Rule 335-3-4-.04(1). Triple Sand Silo A shall be loaded no more than 500 hr/yr in any consecutive twelve-month period.	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
2. Particulate matter emissions from the Dual Pre-mix Silo C shall not exceed the lesser of the Anti-PSD limit of 1.0 lb/hr or the allowable as set by Rule 335-3-4-.04(1). Dual Pre-mix Silo C shall be loaded no more than 350 hr/yr in any consecutive twelve-month period.	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
3. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
Emission Monitoring	
1. The facility shall perform a visual check, once per day, of each silo bin vent associated with this unit. This check shall be performed by a person familiar with Method 9. If visible emissions in excess of 10% opacity are noted and are not corrected within a period of 1 hour, then a Method 9 observation must be performed within 4 hours of the observations. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05
2. The facility shall maintain a record of all inspections, to include visible observations and Method 9 observations performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken.	Rule 335-3-16-.05
3. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report, and the cause and corrective action taken will be documented.	Rule 335-3-16-.05
4. Records of loading hours for Triple Sand Silo A shall be maintained.	Rule 335-3-16-.05
4. Records of loading hours for Dual Pre-mix Silo C shall be maintained.	Rule 335-3-16-.05

Summary Page for Two Wheelabrator Tumblast with Baghouse EP016

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
016	Wheelabrator Tumblast (1) with Baghouse	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
016	Wheelabrator Tumblast (1) with Baghouse	PM	1.0 lb/hr*	Rule 335-3-14-.04 (Anti-PSD)
016	Wheelabrator Tumblast (1) with Baghouse	Opacity	20%/40%	Rule 335-3-4-.01(1)
016	Wheelabrator Tumblast (2) with Baghouse	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
016	Wheelabrator Tumblast (2) with Baghouse	PM	1.0 lb/hr*	Rule 335-3-14-.04 (Anti-PSD)
016	Wheelabrator Tumblast (2) with Baghouse	Opacity	20%/40%	Rule 335-3-4-.01(1)
Fugitives	Wheelabrator Tumblast with Baghouses	Opacity	20%/27%	40 CFR §63.7690(a)(7)

*Note: Particulate matter emissions from both shotblast units combined shall not exceed 1.0 lb/hr out of the baghouse stack.

Provisos Two Wheelabrator Tumblast with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, *"Major Source Operating Permits"*.	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions – Process Industries – General"*.	Rule 335-3-4-.04
4. The Two Wheelabrator Tumblast Systems have a combined enforceable limit in place in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, *"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"*.	Rule 335-3-14-.04 (Anti-PSD)
5. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, *"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"*.	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
6. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart A, *"General Provisions"*, as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
7. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, *"Compliance Assurance Monitoring"*, to include General Proviso #33.	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from both Wheelabrator Tumblast Systems combined shall not exceed the lesser of the Anti-PSD limit of 1.0 lb/hr or the allowable as set by Rule 335-3-4-.04(1).	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
2. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility shall perform performance test to demonstrate compliance with the fugitive opacity limit in §63.7690(a)(7) no less frequently than every 6 months.	40 CFR §63.7731(b)
4. Compliance with the fugitive emission opacity limit in §63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation for the entire building or structure may be performed if the fugitive release points afford such an observation.	40 CFR §63.7732(d)
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per week: check hopper, fan, and cleaning cycle for proper operation. (b) Once per week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per year: inspect baghouse structure, access doors, door seals, and bags. (b) Once per year: perform an internal inspection of the baghouse hoppers.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
3. The visible emission observation results will be documented using an ADEM visible emissions observation report.	Rule 335-3-16-.05
4. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
5. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
6. The facility shall maintain a record of all the calibrations of the magnehelic/photohelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64

Summary Page for Fire Hydrant Bodies and Parts Painting

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
080	Spray Painting	VOC	N/A	N/A
080	Spray Painting	Organic HAP	2.6 lb/gal coating solids	40 CFR §63.3890(b)(1)
080	Spray Painting	Xylene	N/A	N/A
080	Spray Painting	Toluene	N/A	N/A
080	Spray Painting	Ethyl Benzene	N/A	N/A
080	Spray Painting	Methyl Isobutyl Ketone	N/A	N/A
080	Spray Painting	Methyl Ethyl Ketone	N/A	N/A
080	Spray Painting	Methanol	N/A	N/A
080	Spray Painting	Triethylamne	N/A	N/A
080	Spray Painting	n-Butyl Alcohol	N/A	N/A

Provisos for Fire Hydrant Bodies and Parts Painting

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16.03, *"Major Source Operating Permit"*.	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart MMMM, *"National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products".*	Rule 335-3-11-.06(90) 40 CFR §63.3881(a)(1)
3. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart A, *"General Provisions"*, as specified in Table 2 to 40 CFR Part 63, Subpart MMMM.	Rule 335-3-11-.06(1) 40 CFR §63.3901
Emission Standards	
1. This source shall limit organic HAP emissions to no more than 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period.	40 CFR §63.3890(b)(1)
Compliance and Performance Test Methods and Procedures	
1. Compliance with the organic HAP content limit shall be demonstrated by using the methods and procedures listed in §63.3951.	40 CFR §63.3951
Emission Monitoring	
1. The facility must demonstrate that, based on the coatings, thinners and/or other additives and cleaning materials used in the coating operation(s), the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in §63.3890, calculated as a rolling 12-month emission rate and determined on a monthly basis. The permittee must meet all applicable requirements of §63.3950, §63.3951 and §63.3952 to demonstrate compliance with the emission limit using this option.	40 CFR §63.3891(b)
Recordkeeping and Reporting Requirements	
1. The use of any material which exceeds the applicable organic HAP content requirements in §63.3890 must be reported in the semiannual compliance report and must include the information in §63.3920(a)(6)(i)-(iii) as applicable.	40 CFR §63.3920

Federally Enforceable Provisos	Regulations
2. The facility must maintain records of the calculation of the organic HAP content for each coating, using Equations 1, 1A through 1C, and 2 of §63.3951 as applicable.	40 CFR §63.3930(c)(3)
3. The facility must maintain records as specified in §63.3931(a-c) available for expeditious review according to §63.10(b)(1). Each record shall be maintained for 5 years following date of each occurrence, measurement, maintenance, corrective action, report, or record. The facility must keep each record on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). The facility may keep the records off-site for the remaining 3 years.	40 CFR §63.3931(a-c)

Summary Page for Intermittent Shotblast with Bagfilter

Permitted Operating Schedule:

6000 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
005	Intermittent Shotblast with Bagfilter	PM	$3.59(P)^{0.62}$	Rule 335-3-4-.04
005	Intermittent Shotblast with Bagfilter	PM	1.75 lb/hr	Rule 335-3-14-.04 (Anti-PSD)
005	Intermittent Shotblast with Bagfilter	Opacity	20%/40%	Rule 335-3-4-.01(1)
Fugitives	Intermittent Shotblast with Bagfilter	Opacity	20%/27%	40 CFR §63.7690(a)(7)

Provisos for Intermittent Shotblast with Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, *"Major Source Operating Permits"*.	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, *"Control of Particulate Emissions – Process Industries – General"*.	Rule 335-3-4-.04
4. The Intermittent Shotblast with Baghouse has an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, *"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"*.	Rule 335-3-14-.04 (Anti-PSD)
5. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, *"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"*.	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
6. The facility is subject to the applicable requirements of 40 CFR Part 63, Subpart A, *"General Provisions"*, as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
7. For particulate matter emissions, this source is subject to the applicable requirements of 40 CFR Part 64, *"Compliance Assurance Monitoring"*, to include General Proviso #33.	40 CFR Part 64
Emission Standards	
1. Particulate matter emissions from the Intermittent Shotblast shall not exceed the lesser of the Anti-PSD limit of 1.75 lb/hr or the allowable as set by Rule 335-3-4-.04(1). The Intermittent Shotblast shall not operate more than 6,000 hr/yr in any consecutive twelve-month period.	Rule 335-3-4-.04 Rule 335-3-14-.04 (Anti-PSD)
2. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
3. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)

Federally Enforceable Provisos	Regulations
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility shall perform performance tests to demonstrate compliance with the fugitive opacity limit in §63.7690(a)(7) no less frequently than once every 6 months.	40 CFR §63.7731(b)
4. Compliance with the fugitive emission opacity limit in §63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation for the entire building or structure may be performed if the fugitive release points afford such an observation.	40 CFR §63.7732(d)
Emission Monitoring	
1. Compliance Assurance Monitoring shall be conducted in accordance with the attached Appendix.	40 CFR Part 64
2. The facility shall perform a weekly inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per week: check hopper, fan, and cleaning cycle for proper operation. (b) Once week: a visual check of all hoods and ductwork.	Rule 335-3-16-.05
3. The facility shall perform an annual inspection of the baghouse to verify proper operation. The following activities shall be performed: (a) Once per year: inspect baghouse structure, access doors, door seals, and bags. (b) Once per year: perform an internal inspection of the baghouse hoppers.	Rule 335-3-16-.05

Federally Enforceable Provisos	Regulations
Recordkeeping and Reporting Requirements	
1. All records shall be maintained in a form suitable for inspection for a period of at least five (5) years.	Rule 335-3-16-.05
2. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
3. The visible emission observation results will be documented using an ADEM visible emissions observation report.	Rule 335-3-16-.05
4. Records of the hours of operation of the Intermittent Shotblast shall be maintained.	Rule 335-3-16-.05
5. The facility shall maintain a record of all differential pressure readings performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64
6. The facility shall maintain a record of all weekly and annual baghouse inspections to satisfy the requirements of periodic monitoring. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05
7. The facility shall maintain a record of all the calibrations of the magnehelic/photohelic. This shall include all problems observed, excursions, and corrective actions taken.	Rule 335-3-16-.05 40 CFR Part 64

Summary Page for Core Production

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
092	Core Production	VOC	N/A	N/A
092	Core Production	Opacity	20%/40%	Rule 335-3-4-.01(1)
092	Core Production	Opacity	20%/27%	40 CFR §63.7690(a)(7)

Provisos for Core Production

Federally Enforceable Provisos	Regulations
Applicability	
1. This Source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, *"Major Source Operating Permits"*.	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, *"Control of Particulate Matter Emissions – Visible Emissions"*.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart EEEEE, *"National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries"*.	Rule 335-3-11-.06(108) 40 CFR §63.7682(b)
4. The facility is subject to the applicable requirements of 40 CFR Part 63, Subpart A, *"General Provisions"*, as specified in Table 1 to 40 CFR Part 63, Subpart EEEEE.	Rule 335-3-11-.06(1) 40 CFR §63.7760
Emission Standards	
1. Visible emissions from this unit shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. For each building or structure housing any iron and steel foundry emissions source at the iron and steel foundry, the fugitive emissions shall not exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 27 percent opacity.	40 CFR §63.7690(a)(7)
Compliance and Performance Test Methods and Procedures	
1. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
2. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
3. The facility shall perform performance tests to demonstrate compliance with the fugitive opacity limit in §63.7690(a)(7) no less frequently than once every 6 months.	40 CFR §63.7731(b)
4. Compliance with the fugitive emission opacity limit in §63.7690(a)(7) from buildings or structures housing any iron and steel foundry emissions source at the iron and steel foundry shall be determined using EPA Method 9, as found in Appendix A of 40 CFR 60. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations	40 CFR §63.7732(d)

Federally Enforceable Provisos	Regulations
for each opening or vent from the building or structure. Alternatively, a single opacity observation for the entire building or structure may be performed, if the fugitive release points afford such an observation.	
Emission Monitoring	
1. This source is subject to no additional specific requirement other than those specified in the General Provisos.	Rule 335-3-16-.05
Recordkeeping and Reporting Requirements	
1. The facility shall maintain a record of all Method 9 observations performed to satisfy the monitoring requirements. This shall include all problems observed, excursions, and corrective actions taken. Each record shall be maintained for a period of 5 years.	Rule 335-3-16-.05

APPENDIX CAM

Compliance Assurance Monitoring Requirements

CAM Plan for Emission Unit 015 (Lost Foam Foundry Sand Recycling System with Baghouse)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Differential Pressure
Measurement Approach	Measured using EPA Reference Method procedures	Measured using a Magnehelic/Photohelic
II. Indicator Range	While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O and greater than 8.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.
III. Performance Criteria		
A. Data Representativenes	Measurement is being made at the emission point (baghouse exhaust)	The magnehelic/photohelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	Not Applicable	Not Applicable
C. QA/QC Practices and Criteria	The observer will be certified with Reference Method 9	The magnehelic/photohelic will be calibrated annually. If abnormal pressure is noted, pressure taps will be checked.
D. Monitoring Frequency	An instantaneous observation will be performed daily.	The pressure drop will be monitored daily.
E. Data Collection Procedures	The VE observation will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
F. Averaging Period	Instantaneous	Instantaneous

CAM Plan for Emission Unit 004 (Continuous Shotblast with Baghouse)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Differential Pressure
Measurement Approach	Measured using EPA Reference Method procedures	Measured using a Magnehelic/Photohelic
II. Indicator Range	While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O and greater than 6.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.
III. Performance Criteria A. Data Representativeness	Measurement is being made at the emission point (baghouse exhaust)	The magnehelic/photohelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	Not Applicable	Not Applicable
C. QA/QC Practices and Criteria	The observer will be certified with Reference Method 9	The magnehelic/photohelic will be calibrated annually. If abnormal pressure is noted, pressure taps will be checked.
D. Monitoring Frequency	An instantaneous observation will be performed daily.	The pressure drop will be monitored daily.
E. Data Collection Procedures	The VE observation will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
F. Averaging Period	Instantaneous	Instantaneous

CAM Plan for Emission Unit 009 (Sand Recycling System with Baghouse)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Differential Pressure
Measurement Approach	Measured using EPA Reference Method procedures	Measured using a Magnehelic/ hotohelic
II. Indicator Range	While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O and greater than 8.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.
III. Performance Criteria A. Data Representativenes	Measurement is being made at the emission point (baghouse exhaust)	The magnehelic/photohelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	Not Applicable	Not Applicable
C. QA/QC Practices and Criteria	The observer will be certified with Reference Method 9	The magnehelic/photohelic will be calibrated annually. If abnormal pressure is noted, pressure taps will be checked.
D. Monitoring Frequency	An instantaneous observation will be performed daily.	The pressure drop will be monitored daily.
E. Data Collection Procedures	The VE observation will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
F. Averaging Period	Instantaneous	instantaneous

CAM Plan for Emission Unit 019 (Disamatic Mold System with Baghouse)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Differential Pressure
Measurement Approach	Measured using EPA Reference Method procedures	Measured using a Magnehelic/Photohelic
II. Indicator Range	While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O and greater than 6.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.
III. Performance Criteria A. Data Representativenes	Measurement is being made at the emission point (baghouse exhaust)	The magnehelic/photohelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	Not Applicable	Not Applicable
C. QA/QC Practices and Criteria	The observer will be certified with Reference Method 9	The magnehelic/photohelic will be calibrated annually. If abnormal pressure is noted, pressure taps will be checked.
D. Monitoring Frequency	An instantaneous observation will be performed daily.	The pressure drop will be monitored daily.
E. Data Collection Procedures	The VE observation will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
F. Averaging Period	Instantaneous	Instantaneous

CAM Plan for Emission Unit 011 (Ten Pedestal Grinders with Dustex Baghouse)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Differential Pressure
Measurement Approach	Measured using EPA Reference Method p procedures	Measured using a Magnehelic/Photohelic
II. Indicator Range	While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O and greater than 6.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.
III. Performance Criteria		
A. Data Representativenes	Measurement is being made at the emission point (baghouse exhaust)	The magnehelic/photohelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	Not Applicable	Not Applicable
C. QA/QC Practices and Criteria	The observer will be certified with Reference Method 9	The magnehelic/photohelic will be calibrated annually. If abnormal pressure is noted, pressure taps will be checked.
D. Monitoring Frequency	An instantaneous observation will be performed daily.	The pressure drop will be monitored daily.
E. Data Collection Procedures	The VE observation will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
F. Averaging Period	Instantaneous	Instantaneous

CAM Plan for Emission Unit 016 (Two Wheelabrator Tumblast Systems with Baghouse)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Differential Pressure
Measurement Approach	Measured using EPA Reference Method p procedures	Measured using a Magnehelic/Photohelic
II. Indicator Range	While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O and greater than 8.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.
III. Performance Criteria A. Data Representativenes	Measurement is being made at the emission point (baghouse exhaust)	The magnehelic/photohelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	Not Applicable	Not Applicable
C. QA/QC Practices and Criteria	The observer will be certified with Reference Method 9	The magnehelic/photohelic will be calibrated annually. If abnormal pressure is noted, pressure taps will be checked.
D. Monitoring Frequency	An instantaneous observation will be performed daily.	The pressure drop will be monitored daily.
E. Data Collection Procedures	The VE observation will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
F. Averaging Period	Instantaneous	Instantaneous

CAM Plan for Emission Unit 005 (Intermittent Shotblast with Bagfilter)

	Indicator 1	Indicator 2
I. Indicator	Visible Emissions	Differential Pressure
Measurement Approach	Measured using EPA Reference Method procedures	Measured using a Magnehelic/Photohelic
II. Indicator Range	While the unit is operating, an excursion is defined as the presence of visible emissions greater than 10% opacity. Excursions trigger an inspection, corrective action, and a reporting requirement.	While the unit is operating, an excursion is defined as a pressure differential below 1.0 inches of H_2O and greater than 6.0 inches of H_2O. Excursions trigger an inspection, corrective action, and a reporting requirement.
III. Performance Criteria A. Data Representativenes	Measurement is being made at the emission point (baghouse exhaust)	The magnehelic/photohelic measures the pressure differential between the inlet and outlet of the baghouse.
B. Verification of Operation Status	Not Applicable	Not Applicable
C. QA/QC Practices and Criteria	The observer will be certified with Reference Method 9	The magnehelic/photohelic will be calibrated annually. If abnormal pressure is noted, pressure taps will be checked.
D. Monitoring Frequency	An instantaneous observation will be performed daily.	The pressure drop will be monitored daily.
E. Data Collection Procedures	The VE observation will be recorded with the time, date, and name of the observer.	The pressure differential will be recorded with the time, date, and name of the observer.
F. Averaging Period	Instantaneous	Instantaneous